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TEXAS INSTRUMENTS INCORPORATED			SAXENA, AKASH	
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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/943,595	<b>Applicant(s)</b> SWOBODA, GARY L.	
	<b>Examiner</b> Akash Saxena	<b>Art Unit</b> 2128	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 10 November 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☐ Claim(s) 1-4, 16, 17 and 27-54 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-4, 16, 17 and 27-54 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some    \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Claims 1-4, 16-17, and 27-54 have been presented for examination based on the application filed on 30 August 2001.
2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 10<sup>th</sup> November 2005 has been entered.

### ***Response to Remarks, Amendments and Arguments***

3. Applicant has argued that claims 1, 16 and 27 have been amended to delete the recitation of number (now plurality) of terminals. The objection to the 35 USC 112, second paragraph will is still maintained.
4. Applicant has argued that Edwards does not teach the amended limitation of claims 1, 16 and 27, related to data processor clock rate and transmission rate. Examiner respectfully disagrees. Please see 35 USC 103 rejection made below to address the new limitations.
5. Applicant has argued that Edwards does not teach limitations of claims 2, 17 and 34. Examiner agrees with the applicant, however on further review of the Edwards reference, these claims are taught as presented in the 35 USC 103 rejection below.
6. Applicant has argued that Edwards limitations of claims 2, 17 and 34 are broad and not indefinite. Examiner agrees with the applicant, and withdraws the 35 USC 112

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rejections. A claim interpretation is however made below related to the fixed size as reflected from the specification.

7. Applicant has argued that Edwards does not teach limitations of claims 30-36.

Although not explicitly taught by Sterbenz, these teachings are obvious to examiner.

In order to further prosecution a new art that clearly discloses the teachings is applied to these claims under 35 USC 103 below.

8. Examiner had not addressed newly presented claims 37-54 before, hence rejection based on either Edwards or Sterbenz is premature. Please see 35 USC 103 rejection below.

9. Objection to specification is withdrawn in view of addition of summary of invention section.

### ***Claim Interpretation***

10. Claim 1 discloses first fixed size and second fixed size. The embodiment from specification discloses first fixed size as 10-bit block and second fixed size as either 6, 12 or 16 bit (Specification: Fig. 23, 23A, 23B).

11. Claim 1 also discloses arranging the collected emulation information into plurality of first information blocks. The first information block and second information block are understood to contain emulation information, which is the "trace information" as shown in Fig.1-2.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

11. Claims 1-4, 16-17, and 27-54 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

**Regarding Claims 1-4, 16-17, and 27-54**

Claims 1, 16 and 27 recites "plurality of terminals". A person skilled in the art would not know how to determine the size of plurality of terminals from the provided disclosure, as there are no claimed meets and bounds of the number of terminals present. The invention as understood from the disclosure would be trivial if there are zero or infinite number of terminals. Although this is an extreme case, some indication or relation to the packet sizing and pin configuration would clarify the issue.

Claims 2-4, 17, and 28-54 are rejected based on their dependency on claims 1, 16 and 17.

***Claim Rejections - 35 USC § 101***

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

12. Claim 1-4, 30-31, 37-42 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Regarding Claim 1

Method claim 1 does not recite a tangible result to the preamble disclosing "exporting emulation information from the data processor" as the last step outputs the second sequence of second information blocks, but that information is not tangibly stored in any location once derived from the first information block. Hence, there is no indication there the results of outputting step are tangible.

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***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148

USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

**13.Claim 1-4, 16-17, 27,-29, 34, 37-39, 43-45, and 49-51 are rejected under 35**

**U.S.C. 103(a) as being unpatentable over US Patent No 6,732,307 issued to Edwards.**

Regarding Claim 1

Edwards teaches a method of exporting emulation information from a data processor (Edwards: Col. 2, Lines 31-33), comprising collecting internal emulation information from a data processor at a data processor clock rate (Edwards: Col. 2, Lines 12-19); arranging the collected emulation information into a plurality of first information blocks having a first fixed size (Edwards: Col. 17, Lines 45-52).

Edwards teaches receiving the plurality of first information blocks (Edwards: Col. 17, Lines 45-52 in trace buffer 227) and arranging (e.g. PC compression) the emulation information contained therein into a plurality of second information blocks (Edwards: having a second fixed size which differs from the first fixed size of the first information blocks as data received from the trace buffer 227 (representing the first information block) is formatted to include time stamp information and stored in FIFO (Edwards: Col. 7, Lines 27-31; Fig.2, Element 202) and compression being performed on the PC (Edwards: Fig 11A & 11B) which *obviously* changes the size of the information block. FIFO is storage sequential storage element re-presenting second information block, which differ in size from trace data information.

Edwards teaches outputting a sequence of the second information blocks via a plurality of terminals at a transmission clock rate, which may be different from the processor clock rate as obvious from the rate converter teaching of Edwards (Edwards: Col.2 Lines 37-40, 40-58), said first fixed size, said data processor clock



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rate, said second fixed size and said transmission clock rate related whereby a bit rate of first information blocks equals a bit rate of said second information blocks.

*Applicant has presented arguments (Remarks: Pg. 19) that block size of the information in the trace buffer 227 is the same as FIFO 202 & trace port registers 212. Examiner respectfully disagrees, as Edwards explicitly teaches change in first fixed size as present in the trace buffer 227 by addition of information size (timestamp & address by the trace processor 205 & reference counter 217; Col.19 Lines 64-67; Col.20 Lines 1-7) and further teaches compression of the PC and other information (Edwards: Fig 11A & 11B; Col.19 Lines 3-19). Further, Table 7(sic) 8 (Col.20) clearly shows the reference message sent out having 14 bytes content, which is different in size from the message size present the trace buffer 227 (8 bytes to max 24 bytes).*

Edwards does not explicitly teach said first fixed size, said data processor clock rate, said second fixed size and said transmission clock rate related whereby a bit rate of first information blocks equals a bit rate of said second information blocks.

It would have been obvious to one (e.g. a designer) of ordinary skill in the art at the time the invention was made to apply the teachings of one skilled in the art of "data rate transmission and manipulation" and Edwards to relate the processor rate and first fixed size to transmission rate and second fixed size as basic input output equation of any rate converter system taught by Edwards (Edwards: Col.2 Lines 37-40; 23-26) which as Edwards teaches is necessary to maximize the use of the limited transmission bandwidth to external systems (Edwards: Col.2 Lines 40-58) with additional information added to first fixed size (e.g. timestamp, address).

Regarding Claim 2

Edwards teaches second fixed size (Edwards: Col.20 Table 8 7(sic)) is smaller in size than the first fixed size (Edwards: Trace Buffer 227 Max 3\*8bytes; Col. 17, Lines 45-52).

Regarding Claim 3

Edwards teaches that trace information present in the FIFO might contain other control information like timing, program counter and address data in a compressed format (Edwards: Col.18, Lines 44-49). An embodiment of compression code is also shown (Edwards: Col.19, Lines 20-59). This data is exported the debug tool on the external system (Edwards: Col.6, Lines 33-35) the tool reconstructs the message and control information (Edwards: Col.19, Lines 18-20).

Regarding Claim 4

Edwards teaches that first information block may be packets on a switched communication medium (Edwards: Col.5, Lines 43-46) and second information blocks are made from first information blocks and are inform of packets (Edwards: Col.8, Lines 58-60; Col.7, Lines 31-38) to be sent to an external system over a transmission circuit.

Regarding Claim 16

Apparatus of claim 16 performs and is directed at the same functionality as the method of claim 1 and is thus rejected in the like manner. A data processor in the claim 16 is equivalent to data processor in claim 1. A collector in claim 16 is performing the same step of the method as the collection process in the claim 1. An exporter in claim 16 (coupled to the collector) performs the function of receiving trace data (from collector) and re-arranging trace data, as in method-step of claim 1. An exporter coupled to plurality of terminals to output the data is performing the same function as "outputting in sequence" step in claim 1. Further claim 16 states that all these components are part of an integrated circuit. Edwards teaches that data processor, collector and exporter can be on the same integrated circuit (Edwards: Fig.1, Element 101). The added limitations are also addressed similarly as in claim 1.

Regarding Claim 17

Claim 17 discloses similar limitations as claim 2 and is rejected for the same reasons as claim 2.

Regarding Claim 27

System of claim 27 performs and is directed at the same functionality as the method of claim 1 and is thus rejected in the like manner. Edwards teaches that data processor (Edwards: Fig.1, Element 102), emulation controller (Edwards: Fig.1, Element 103-Debug unit), apparatus to convey emulation information between processor and emulation controller (Edwards: Fig.2, Element 227 (trace buffer),

220(capture buffer), 206(trace data latch)) and exporter (Edwards: Fig.2, Element 215, 106) can be on the same integrated circuit (Edwards: Fig.1, Element 101).

An exporter coupled to plurality of terminals to exporter the data is performing the same function as "outputting information" step in claim 1. The added limitations are also addressed similarly as in claim 1.

#### Regarding Claims 28 & 29

Teachings of Edwards are disclosed above in claims 27. Edwards also teaches that the debug system (emulation controller) is connected to external system (Edwards: Col.6, Lines 12-14). An external system could be a host computer running the debug tool mentioned by Edwards (Edwards: Col 7, Lines 46-48). A keyboard constitutes a "tactile interface" and a computer monitor constitutes a "visual interface". Official notice is taken that it is extremely well known in the art to use a keyboard and a computer monitor with a computer (host interface) to form a man-machine interface.

#### Regarding Claim 34

Claim 34 discloses similar limitations as claim 2 and is rejected for the same reasons as claim 2.

#### Regarding Claim 37

Edwards also teaches rate conversion system (Edwards: Col.2 Lines 36-40) making the transmission speed variable and adjustable. Further, Edwards teaches that trace system (transmission clock) operate independent to the internal clock speed of the processor (Edwards: Col.2 Lines 23-27), whereby the transmission speed is design choice. Microsoft dictionary defines the communications controller & communications parameters as follows:

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Communications controller: A device used as an intermediary in transferring communications to and from the host computer to which it is connected. [...]. A communications controller can be either programmable machine in its own right or a non-programmable device designed to follow a certain communications protocols.

Communications Parameters: Any of the several settings required in order to enable computers to communicate. In asynchronous communications, for example, modem speed (*transmission rate*), number of data bits and stop bits, and type of parity are parameters that must be set correctly to establish communications between two modems.

It would be obvious to one skilled in the art of communications that the transmission rate conversion is a design choice known to the designer.

#### Regarding Claim 38

As indicated the by Edwards the fixed size of the trace may be at the maximum of 3\*64 bit in the trace buffer 227, i.e. trace buffer may occupy only one slot (8 bytes) (Edwards: Fig.8 Elements 808-810). Further, Edwards teaches trace messages (second fixed size) in byte increments, which are greater in size than 8 bytes (Edwards: Tables 4-8) thereby teaching second fixed size greater than first fixed size.

#### Regarding Claim 39

Edwards teaches transmission clock rate is less than data processor clock rate (Edwards: Col.8 Lines 30-45) where the clock frequency is divided and fed to the trace processor, thereby reducing the effective transmission frequency. Further, Edwards also teaches rate conversion system (Edwards: Col.2 Lines 36-40) making the transmission speed variable and adjustable.

#### Regarding Claims 43-45

Claims 43-45 disclose similar limitations as claims 37-39 respectively and are rejected for the same reasons as claim 37-39 respectively.

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Regarding Claims 49-51

Claims 49-51 disclose similar limitations as claims 37-39 respectively and are rejected for the same reasons as claim 37-39 respectively.

- 1. Claims 30,32 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. US Patent No 6,732,307 issued to Edwards in view of U.S. Patent No. 6229808 issued to Teich et al (Teich hereafter).**

Regarding Claims 30

Teaching of Edwards relating to collection of trace information in first fixed size and second fixed size is provided in respective parent and/or independent claim rejection in previous office action. Edwards teaches current packet register as target port registers (Fig.2 Element 212).

Edwards does not teach the new limitations where the second fixed size information block "is" and "is not" in multiples of first information blocks explicitly. Further, Edwards also does not explicitly teach arranging and selecting the bits from the first fixed size and vise versa.

Teich teaches a first fixed size (Teich: Fig.9 ATM Cells) is an integral multiple of second fixed size (Teich: Fig.9 Local Data Package). The selecting and arranging is obvious in the design as for conversion between ATM package and Local package (Teich: Fig.9; Col.5 Lines 50-Col.6Lines21) would necessitate the need for selecting bits.

It would have been obvious to one (e.g. a designer) of ordinary skill in the art at the time the invention was made to apply the teachings of Teich to Edwards to convert the first fixed block of information into second fixed block of information. The motivation to combine would have been that Teich simplifies the design of packet switching by providing little or no translation of data while changing from one fixed size to another (Teich: Col.1 Lines 46-50).

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Regarding Claim 32

Claim 32 disclose similar limitations as claims 30 respectively and are rejected for the same reasons as claim 30.

Regarding Claim 35

Claim 35 disclose similar limitations as claims 30 respectively and are rejected for the same reasons as claim 30.



- 2. Claims 31, 33 & 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. US Patent No 6,732,307 issued to Edwards, in view of U.S. Patent No. 5,953,339 issued to Baldwin al (Baldwin hereafter).**

Regarding Claims 31

Teaching of Edwards relating to collection of trace information in first fixed size and second fixed size is provided in respective parent and/or independent claim rejection in previous office action. Edwards teaches current packet register as target port registers (Fig.2 Element 212).

Edwards does not teach the new limitations where the second fixed size information block "is" and "is not" in multiples of first information blocks explicitly. Further, Edwards also does not explicitly teach arranging and selecting the bits from the first fixed size and vice versa including the use of last and current packet register.

Baldwin teaches a first fixed size (Teich: Fig.1 LLC packets) is a forming a *non-integral multiple of second fixed size* (Teich: Fig.1 ATM packets). The selecting and arranging is obvious in the design as for conversion between ATM packets and LLC packets (Teich: Fig.9; Col.5 Lines 50-Col.6Lines21) would necessitate the need for selecting bits and remembering last LLC packet bits.

It would have been obvious to one (e.g. a designer) of ordinary skill in the art at the time the invention was made to apply the teachings of Baldwin to Edwards. The motivation to combine would have been that Baldwin teaches better compaction technique instead of bit stuffing technique used in alternate implementation when the inter-packet conversion sizes are non-integral multiples. The advantages of compaction and bit stuffing technique are well known in the art.

Regarding Claim 33

Claim 33 disclose similar limitations as claims 31 respectively and are rejected for the same reasons as claim 31.

Regarding Claim 36

Claim 36 disclose similar limitations as claims 31 respectively and are rejected for the same reasons as claim 31.

- 3. Claim 40-42, 46-48 & 52-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No 6,732,307 issued to Edwards, in view of U.S. Patent No. 5,953,339 issued to Baldwin al (Baldwin hereafter), further in view of U.S. Patent No. 5,790,398 issued to Horie (Horie hereafter).**

Regarding Claim 40-42

Teachings of Edwards & Baldwin are shown in the claim 31 rejection above.

Edwards teaches stalling of operation in case of inability to transmit (due to buffer overflow) (Edwards: Fig.2 Elements 219 and 202).

Edwards and Baldwin do not teach use of NOP bit if no first information block is available for transmission.

Horie teaches use of NOP bits as pseudo-transmission data transmission, indicating that no data is being transmitted and for synchronization purpose (Horie: Fig.3C; Col.6 Lines 25-34). It would be obvious to use the NOP when no data is present to be transmitted from the teachings of Horie and initializing the NOP bits in first information block.

Motivation to combine Edwards with Baldwin is presented above claim 31 rejection above.

It would have been obvious to one (e.g. a designer) of ordinary skill in the art at the time the invention was made to apply the teachings of Horie to Edwards & Baldwin. The motivation to combine would have been that Edwards teaches synchronization when the references are not absolute values (Edwards: Col.20 Lines 7-33) and Horie teaches synchronization through the NOP operation to stop the performance from deteriorating (Horie: Col.2 Lines 3-14; Col.6 Lines 25-34).

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Regarding Claims 46-48

Claims 46-48 disclose similar limitations as claims 40-42 respectively and are rejected for the same reasons as claim 40-42 respectively.

Regarding Claims 52-54

Claims 52-54 disclose similar limitations as claims 40-42 respectively and are rejected for the same reasons as claim 40-42 respectively.

***Conclusion***

14. All claims are rejected.

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

16. **Examiner's Note:** Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in their entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.


***Communication***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Akash Saxena whose telephone number is (571) 272-8351. The examiner can normally be reached on 8:30 - 5:00 PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jean R. Homere can be reached on (571)272-3780. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Wednesday, March 01, 2006



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